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1 Towards locating execution omission errors

 Xiangyu Zhang, Sriraman Tallam, Neelam Gupta, Rajiv Gupta
 June 2007 **PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference implementation**
Publisher: ACM [Request Permissions](#)

Full text available: Pdf (282.87 KB)

 Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 55, Downloads

Execution omission errors are known to be difficult to locate using dynamic failure at runtime because of the omission of execution of some statements if the program had no errors. Since ...

Keywords: debugging, execution omission, implicit dependence, potential relevant slicing

Also published in:

 June 2007 **SIGPLAN Notices** Volume 42 Issue 6

2 Compositional verification of concurrent systems using Petri-net-based

 Eric Y. T. Juan, Jeffrey J. P. Tsai, Tadao Murata
 September 1998 **Transactions on Programming Languages and Systems**
Publisher: ACM [Request Permissions](#)

Full text available: Pdf (578.81 KB)

 Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 101, Downloads

The state-explosion problem of formal verification has obstructed its application to large systems. In this article, we introduce a set of new condensation theories: equivalence, and firing-dependence ...


Keywords: Petri nets, boundedness, compositional verification, deadlock reachability graphs, reachable markings

3 Large-scale testing of the Internet's Border Gateway Protocol (BGP)

 Glenn Carl, George Kesidis
 July 2008 **Transactions on Modeling and Computer Simulation (TOMACS)**
Publisher: ACM [Request Permissions](#)

Full text available:

Additional Information:

 Pdf (574.54 KB)


[full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 138, Downloads


The Internet is a critical communication infrastructure servicing billions of studies of the Internet's operations show that data loss and increased latency in its interdomain routing protocol, ...

Keywords: BGP, interdomain routing, model reduction, network topology

4 [On test suite composition and cost-effective regression testing](#)

 Gregg Rothmel, Sebastian Elbaum, Alexey G. Malishevsky, Praveen Kalla
July 2004 **Transactions on Software Engineering and Methodology**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.02 MB)


[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 266, Downloads


Regression testing is an expensive testing process used to revalidate software methodologies for improving regression testing processes have been examined these methodologies has been shown to vary ...

Keywords: Empirical studies, regression testing, test suite composition

5 [Semantics-preserving multitask implementation of synchronous programs](#)

 Paul Caspi, Norman Scaife, Christos Sofronis, Stavros Tripakis
February 2008 **Transactions on Embedded Computing Systems (TECS)**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (799.29 KB)


[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 91, Downloads


We study the implementation of a synchronous program as a set of multiprocessor, and scheduled by a real-time operating system using some priority fixed priority or earliest-deadline first. Multitask ...

Keywords: Embedded software, model-based design, optimality, preemption communication, semantical preservation, synchronous programming

6 [A model for abstract process specification, verification and composition](#)

 Ziyang Duan, Arthur Bernstein, Philip Lewis, Shiyong Lu
November 2004 **ICSOC '04: Proceedings of the 2nd international conference on Software Composition**

Publisher: ACM

Full text available:  Pdf (231.48 KB)

[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 58, Downloads


An abstract business process contains a description of the protocol that a client revealing the internal computation of the process. This description provides how to compose the process with other Web services. ...

Keywords: BPEL abstract process, web services

7 Test-Suite Augmentation for Evolving Software

R. Santelices, P. K. Chittimali, T. Apwatianapong, A. Orso, M. J. Harrold
September 2008 **ASE '08**: Proceedings of the 2008 23rd IEEE/ACM International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  Pdf (189.28 KB)


Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 15, Downloads (All Time): 15


One activity performed by developers during regression testing is test-suite augmentation, which assesses the adequacy of a test suite after a program is modified and identifies test cases that are not adequately exercised ...

Keywords: fault-detection capabilities, test-suite augmentation, regression testing, dependence analysis, partial symbolic execution

8 Test input generation for java containers using state matching

 Willem Visser, Corina S. Păsăreanu, Radek Peřánek
July 2006 **ISSTA '06**: Proceedings of the 2006 international symposium on integrated static analysis

Publisher: ACM 


Full text available:  Pdf (215.88 KB)

Additional Information: full citation, abstract


Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 97, Downloads (All Time): 17

The popularity of object-oriented programming has led to the wide use of Java containers. The reliability of these containers that they are tested adequately. We describe a technique for test input generation of Java ...

9 EXPedite: a system for encoded XML processing

 Yi Chen, George A. Mihaila, Susan B. Davidson, Sriram Padmanabhan
November 2004 **CIKM '04**: Proceedings of the thirteenth ACM international conference on information and knowledge management

Publisher: ACM 

Full text available:  Pdf (217.31 KB)


Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 22, Downloads (All Time): 2


As XML becomes an increasingly popular format for information exchange, the need to process XML data on a constrained device (for example, a cell phone or a PDA) is increasing. We present the EXPedite system: ...

Keywords: XML, XPath, binary encoding, query processing

10 Putting static analysis to work for verification: A case study

 Tal Lev-Ami, Thomas Reps, Mooly Sagiv, Reinhard Wilhelm
August 2000 **ISSTA '00**: Proceedings of the 2000 ACM SIGSOFT international symposium on integrated static analysis

Publisher: ACM 

Full text available:  Pdf (512.51 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 71, Download

A method for finding bugs in code is presented. For given small number translated into a relational formula whose models represent all execution cells and k loop iterations. This ...

Keywords: alloy language, constraint solvers, detecting bugs, model checking analysis, testing

Also published in:

September 2000 **SIGSOFT Software Engineering Notes** Volume 25 Issue 5

11 [Using formal specifications to support testing](#)



Robert M. Hierons, Kirill Bogdanov, Jonathan P. Bowen, Rance Cleaveland, Gheorghe Mark Harman, Kalpesh Kapoor, Paul Krause, Gerald Lüttgen, An Martin R. Woodward, Hussein Zedan
February 2009 **Computing Surveys (CSUR)**, Volume 41 Issue 2

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (729.47 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 154, Downloads (12 Months): 1938, Download

Formal methods and testing are two important approaches that assist in software. While traditionally these approaches have been seen as rivals developed in which they are seen as complementary. ...

Keywords: Software testing, formal methods

12 [PET: a partial evaluation-based test case generation tool for Java](#) by



Elvira Albert, Miguel Gómez-Zamalloa, Germán Puebla
January 2010 **PEPM '10: Proceedings of the 2010 ACM SIGPLAN workshop on manipulation**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (307.57 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 20, Download

PET is a prototype Partial Evaluation-based Test case generation tool for performs white-box test generation by means of two consecutive Partial decompiles the Java bytecode program ...

Keywords: constraint logic programming, partial evaluation, symbolic

13 [Secure key agreement for group communications](#)

Wen-Her Yang, Shih-Pyng Shieh

November 2001 **International Journal of Network Management**, Volume

Publisher: John Wiley & Sons, Inc.

Full text available: [PDF](#) (174.68 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 3, Download

A secure key agreement protocol for group communications is proposed authenticity of group members and the privacy of group messages, and forward and backward privacy. In a group session, ...

14 [Invariant-based automatic testing of AJAX user interfaces](#)

Ali Mesbah, Aria van Deursen

May 2009 **ICSE '09: Proceedings of the 2009 IEEE 31st International Co**

Publisher: IEEE Computer Society


Full text available:  [Pdf](#) (179.68 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 242, Downl


AJAX-based Web 2.0 applications rely on stateful asynchronous client/s runtime manipulation of the DOM tree. This not only makes them funda applications, but also more error-prone ...

15 [Empirical study of optimization techniques for massive slicing](#)

 David Binkley, Mark Harman, Jens Krinke

November 2007 **Transactions on Programming Languages and System**

Publisher: ACM  Request Permissions

Full text available:  [Pdf](#) (1.44 MB)


Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 70, Downlo

This article presents results from a study of techniques that improve the interprocedural slicing of the System Dependence Graph (SDG). This is are required for many or all ...


Keywords: Slicing, empirical study, internal representation, performan

16 [Using LTL rewriting to improve the performance of model-checker b](#)

 Gordon Fraser, Franz Wotawa

July 2007 **A-MOST '07: Proceedings of the 3rd international workshop o**

Publisher: ACM

Full text available:  [Pdf](#) (255.00 KB)

Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 65, Downloa

Model-checkers have recently been suggested for automated software t presented methods that create efficient test-suites using model-checker are major advantages of such approaches. ...


Keywords: LTL rewriting, automated software testing, test-case gener

17 [Software Testing Research: Achievements, Challenges, Dreams](#)

Antonio Bertolino

May 2007 **FOSE '07: 2007 Future of Software Engineering**

Publisher: IEEE Computer Society


Full text available:  [Pdf](#) (716.35 KB)

Additional Information: full citation, abstra


Bibliometrics: Downloads (6 Weeks): 253, Downloads (12 Months): 1789, Dov

Software engineering comprehends several disciplines devoted to prevent adequate behaviour. Testing, the subject of this paper, is a wide but it is still largely ad hoc, expensive, ...

18 Search-based testing of service level agreements

 Massimiliano Di Penta, Gerardo Canfora, Gianpiero Esposito, Valentina Mazzi
July 2007 **GECCO '07: Proceedings of the 9th annual conference on Genetic Programming**

Publisher: ACM

Full text available:  Pdf (227.12 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 124, Downloads

The diffusion of service oriented architectures introduces the need for a new side, testing must be able to identify failures in the functionality provided to identify cases in which ...

Keywords: quality of service, search-based testing, service level agreements

19 An empirical study of static program slice size

 David Binkley, Nicolas Gold, Mark Harman

April 2007 **Transactions on Software Engineering and Methodology**

Publisher: ACM

Full text available:  Pdf (247.98 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 141, Downloads

This article presents results from a study of all slices from 43 programs, size. The study investigates the effect of five aspects that affect slice size: study two algorithmic ...

Keywords: Program slicing, slice size

20 From program verification to program synthesis

 Saurabh Srivastava, Sumit Gulwani, Jeffrey S. Foster

January 2010 **POPL '10: Proceedings of the 37th annual ACM SIGPLAN-SIGPLAN programming languages**

Publisher: ACM

Full text available:  Pdf (547.18 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 47, Downloads

This paper describes a novel technique for the synthesis of imperative programs has the potential to make programming and the design of systems easier at a higher-level than executable ...

Keywords: proof-theoretic program synthesis, verification

Also published in:

January 2010 **SIGPLAN Notices** Volume 45 Issue 1

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